

SP 2018 - 025

APPROVED BY FORESTRY

M. M. M. M.

LANDSCAPE

TITLE

6-7-18

DATE

APPROVED BY PLANNING

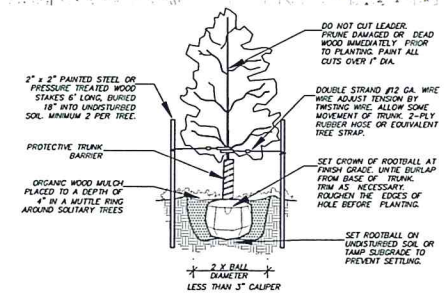
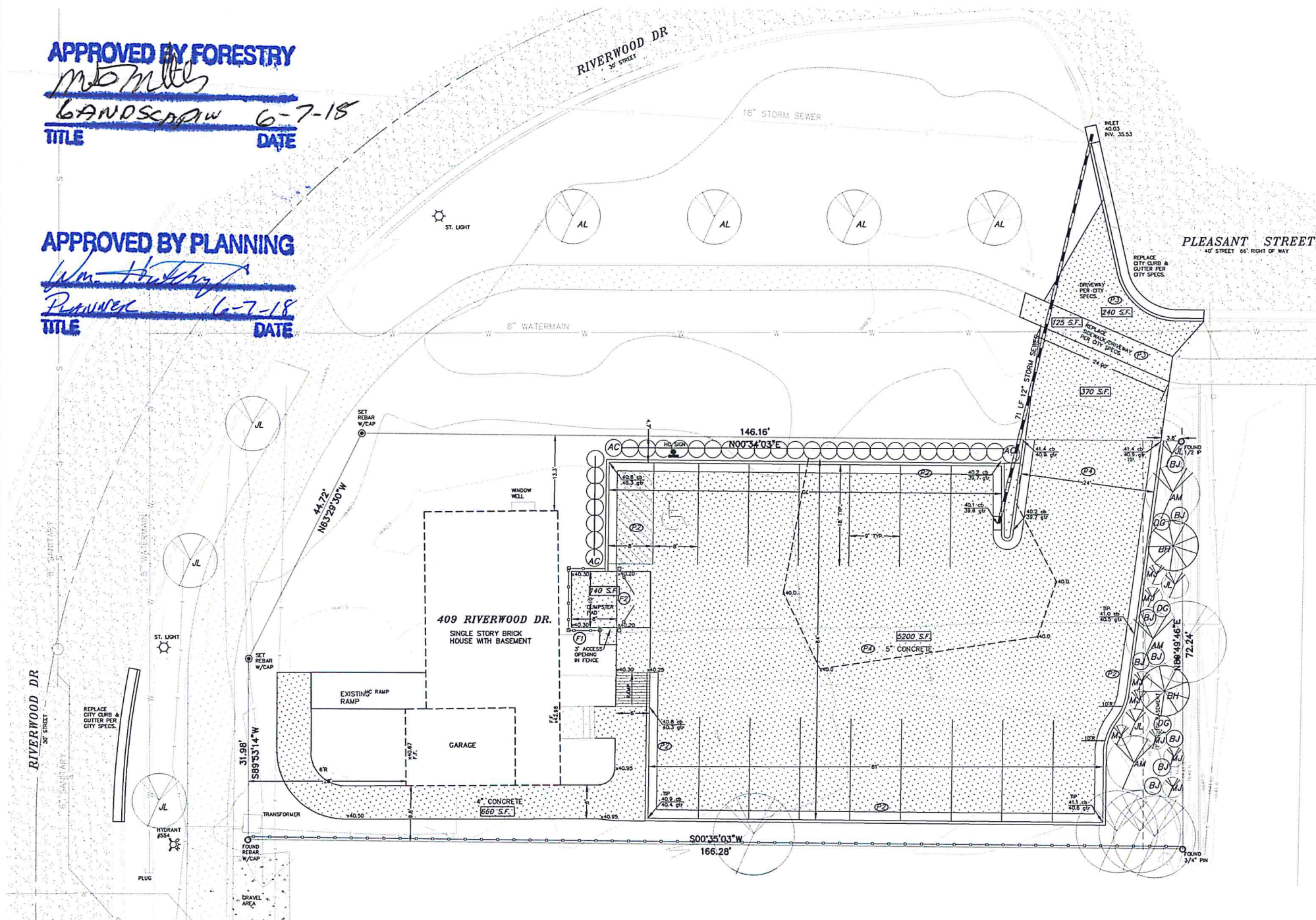
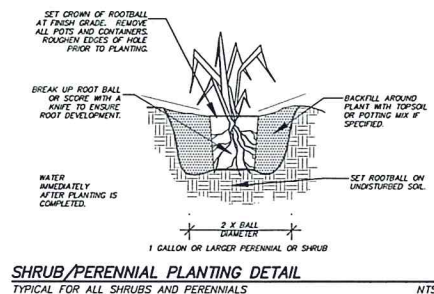
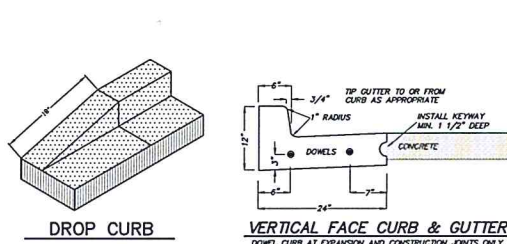
W. H. H. H.

PLANNING

TITLE

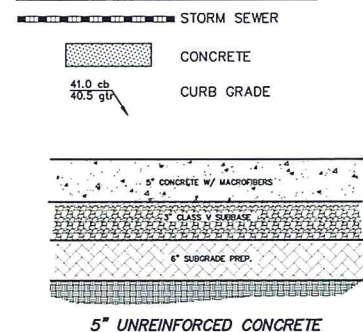
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TREE PLANTING DETAIL
TYPICAL FOR ALL DECIDUOUS, SINGLE-TRUNK, TREESLANDSCAPING REQUIREMENTS
REQUIRED STREET TREES:
3 PER 100 FEET = 7 TREES
PROVIDED STREET TREES:
7 TREESREQUIRED PERIMETER PARKING:
CONTINUOUS HEDGE
PROVIDED PERIMETER PARKING:
CONTINUOUS HEDGEPARKING REQUIREMENTS
BUILDING 1200 S.F.
1 SPACE PER 75 S.F. = 16 SPACESSHRUB/PERENNIAL PLANTING DETAIL
TYPICAL FOR ALL SHRUBS AND PERENNIALSDROP CURB
VERTICAL FACE CURB & GUTTER
DOWEL CURB AT EXPANSION AND CONSTRUCTION JOINTS ONLY

SYM.	COMMON NAME	SCIENTIFIC NAME	SIZE	QNTY.
AM	AUTUMN BLAZE MAPLE	Acer rubrum 'Autumn Blaze'	2" Cal.	3
AL	LILAC, JAPANESE TREE	Syringa reticulata	1-1/2" Cal.	6
BH	BLACK HILLS SPRUCE	Picea glauca 'Densata'	4' MIN.	2
MJ	MEDORA JUNIPER	Juniperus scopulorum 'Medora'	2" MIN./5 GAL	8
AL	AMERICAN LINDEN	Tilia americana	2" Cal.	4
AC	ALPINE CURRANT	Ribes alpinum	2 Gallon	32
DG	DWARF GLOBE SPRUCE	Picea pungens 'Globosa'	2 Gallon	3
BJ	BLUESTAR JUNIPER	Juniperus squamata 'Bluestar'	2 Gallon	8

PROPOSED LEGEND



STORM SEWER INLET SCHEDULE

Inlet/Manhole Number	Inlet #1
Manhole/Inlet Size	48\"/>
Castings	48\"/>
Rim/Outlet Elev.	39.60
Top P.C. Section	38.31
Invert Elev. (a)	36.36
Sump Invert	31.00
Length of P.C.	7.31

FOR REGULATORY
REVIEW ONLY - NOT
FOR CONSTRUCTION

PAVING NOTES

- ON SITE EXTERIOR CONCRETE MATERIALS AND CONSTRUCTION MATERIALS SHALL CONFORM TO CITY OF BISMARCK SPECIFICATIONS EXCEPT AS MODIFIED HEREIN. AIR CONTENT SHALL BE 5% TO 7% STRENGTH AT 28 DAYS SHALL BE 4000 PSI.
- ALL CURB SHALL BE STANDARD VERTICAL FACE CURB AND GUTTER. SEE DETAIL.
- CITY SIDEWALK PER CITY OF BISMARCK SPECIFICATIONS - THICKEN SIDEWALK AT DRIVEWAYS TO 8" PER CITY SPECIFICATIONS.
- 5" CONCRETE WITH MACROSYNTHETIC FIBERS AND 3" CLASS V BASE AND 6" SUBGRADE PREP. SEE DETAIL THIS PAGE. MACROSYNTHETIC FIBERS SHALL CONFORM TO ASTM C 1116/C 1116M, TYPE III AND DOSAGE SHALL BE AS RECOMMENDED BY THE MANUFACTURER. SEE DETAIL THIS SHEET. JOINT SPACING SHALL NOT EXCEED EIGHT FEET.
- JOINT SPACING SHALL TYPICALLY BE SPACED AT 1-1/2 TIMES THE THICKNESS OF THE PAVEMENT (MEASURED IN INCHES) IN FEET (4" S.W. EQUALS 6 FOOT SPACING). IN NO CASE SHALL THE JOINT SPACING EXCEED TWO TIMES THE THICKNESS.
- 4" CONCRETE SIDEWALK.

SIGNAGE & PAVEMENT STRIPING

- ALL NON-ADA STRIPING SHALL BE 4" WIDE NON REFLECTORIZED PAINT MEETING THE REQUIREMENTS OF AASHTO M28 APPLIED AT A RATE OF 110 SQUARE FEET PER GALLON. COLOR SHALL BE YELLOW. TYPICAL FOR ALL STRIPING UNLESS OTHERWISE NOTED.
- ADA STRIPING FOR LANES AND SYMBOLS SHALL BE BLUE PAINT MEETING THE REQUIREMENT OF AASHTO M28 APPLIED AT A RATE OF 110 SQUARE FEET PER GALLON. PROVIDE AND INSTALL ADA SIGNS SECURED TO BUILDING.
- PROVIDE AND INSTALL SIGN.

STORM SEWER NOTES

- MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO CITY OF BISMARCK SPECIFICATIONS. ALL BACKFILL SHALL BE 85% OF STANDARD PROCTOR AT RECOMMENDED MOISTURE CONTENT.
- BREAK INTO EXISTING 2x3 INLET. APPROXIMATE INVERT 36.0.
- INSTALL 71.00 LF 12" 12" STORM SEWER AT 0.5000% AND INSTALL INLET NO.1 WITH HYDRO INTERNATIONAL FIRST DEFENSE FD-4HC; GUTTER 39.60, 12" STS INV. 36.36, SUMP INV. 31.00.

FENCE

- FENCE AT WEST PROPERTY LINE AND AROUND DUMPSTER SHALL BE 6" HIGH IMPERIAL CERTAINTED SMOOTH WHITE FINISH WITH MIDRAIL. CONTRACTOR SHALL FOLLOW MANUFACTURE'S SPECIFICATIONS.
- DUMPSTER ENCLOSURE WILL HAVE 2-5' GATES.

GENERAL LANDSCAPING NOTES

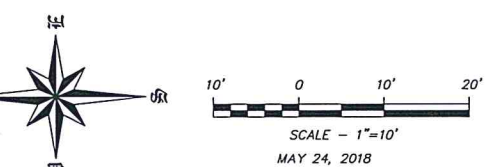
- ALL CONTRACTORS WISHING TO SUBMIT BIDS FOR THIS LANDSCAPING PROJECT SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL CONDITIONS.
- PROTECT THE IMPROVEMENTS ON SITE AND ON THE ADJOINING PROPERTIES. PROVIDE BARRICADES, COVERINGS OR OTHER TYPE OF PROTECTION AS NECESSARY TO PREVENT DAMAGE AND TO SAFEGUARD AGAINST INJURY TO EXISTING UTILITIES.
- DAMAGE THAT OCCURS TO PLANTS DURING TRANSPORTATION AND INSTALLATION WILL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR.
- ALL PLANTING BEDS SHALL BE INSTALLED WITH 3" OF 2" CRUSHED ROCK MULCH, LANDSCAPE FABRIC WITH A MINIMUM WEIGHT OF 4 OZ./SQ. YD. AND WHEREVER NECESSARY, 4" COMMERCIAL GRADE BLACK PLASTIC EDGING TO CONTAIN THE PLANTING BED.
- ALL LANDSCAPE PLANTINGS ARE TO BE WATERED BY THE LANDSCAPE CONTRACTOR THE SAME DAY THAT THE PLANTING OCCURS. IF WATER IS NOT AVAILABLE AT THE BUILDING, THE LANDSCAPE CONTRACTOR SHALL PROVIDE ALTERNATIVE METHODS FOR WATERING.
- SOLITARY TREES DO NOT NEED TO BE EDGED AROUND, HOWEVER ORGANIC WOOD MULCH SHALL BE PLACED AROUND THE TREE IN A MIDDLE RING THAT CONFORMS TO THE DETAIL PROVIDED FOR TREE PLANTINGS.
- CONTRACTOR SHALL PROVIDE WRITTEN WARRANTIES CONFIRMING THE FOLLOWING:
FURNISHED TREES GUARANTEED TO LIVE AND REMAIN STRONG, VIGOROUS, AND HEALTHY CONDITION FOR 365 DAYS MINIMUM FROM DATE LANDSCAPE INSTALLATION IS ACCEPTED AS COMPLETED.
- LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING AND CARING FOR ALL PLANT MATERIAL AND OTHER LANDSCAPING IMPROVEMENTS UNTIL THE DATE OF FINAL INSPECTION AND APPROVAL.

TOPSOIL NOTES

- TOPSOIL IS STOCKPILED ON SITE AND WILL BE PLACE FOR THE LANDSCAPE CONTRACTOR TO SPREAD AND FINISH GRADE. ALL PORTIONS OF THE SITE NOT RECEIVING CONCRETE, CURB & GUTTER OR OTHER IMPROVEMENTS SHALL BE COVERED WITH A MINIMUM OF 6" OF TOPSOIL AND SEEDING ACCORDING TO SPECIFICATIONS.
- TOPSOIL SHALL BE PLACED AND SEEDING AS SOON AS PRACTICAL TO MINIMIZE WIND AND WATER EROSION. BACKFILL BEHIND CURB AND GUTTERS AND SIDEWALK AS SOON AS REASONABLE TO PREVENT STANDING WATER AND PROTECT THE IMPROVEMENTS.

SEEDING NOTES

- CLEAR AND GRUB SITE BEFORE SEEDING ENSURING THAT THE SITE IS IN A SMOOTH CONDITION WITH NO DEBRIS OR ROCKS LARGER THAN 2" IN DIAMETER.
- FERTILIZE SOIL DURING THE SEEDING PROCESS USING AN APPROPRIATE APPLICATION PROCESS. FERTILIZER SHALL BE 10-10-10 AND APPLIED AT A RATE OF 4 LBS. PER 1000 SQUARE FEET.
- SEED SHALL BE DRILL SEEDING TO A DEPTH OF 1/4" TO 1/2" AND SHALL BE EVENLY SPRINKLED. AFTER SEED HAS BEEN SOWN, THE SOIL SHALL BE REPAKED IMMEDIATELY. AFTER THE SEED IS APPLIED TO FIRM THE SOIL AROUND THE SEED. NO SEED SHALL BE PLACED ON DAYS WHERE THE WIND IS STRONG ENOUGH TO PREVENT IT FROM BEING PROPERLY IMBEDDED INTO THE SOIL.
- SEED MUST SHOW A DENSITY OF 20 TO 30 SEEDLINGS PER SQUARE FOOT BEFORE ACCEPTANCE WILL OCCUR. THE CONTRACTOR SHALL FURNISH AND REPLACE WITHOUT ADDITIONAL COMPENSATION THEREFORE, ANY SEED FOR AREAS THAT HAVE NOT GERMINATED, HAVE DIED, OR ARE DAMAGED TO THE EXTENT THAT REPLACEMENT IS REQUIRED TO CONFORM TO THE REQUIREMENTS OUTLINED ABOVE. THE CONTRACT WARRANTY PERIOD SHALL ALSO APPLY TO THIS ITEM.
- CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR ANY EROSION SCARS OR WASHOUTS UNTIL THE DATE THE FINAL SEED STAND IS ACCEPTED. SEE EROSION CONTROL PLAN FOR EROSION CONTROL METHODS.

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UTILITY NOTE

The locations of existing underground utilities are shown in an approximate way only and have not been independently verified by the owner or its representative. The contractor shall determine the exact location of all existing utilities before commencing work, and agrees to be fully responsible for any and all damages which might be occasioned by the contractor's failure to exactly locate and preserve any and all underground utilities.

DATE: 5-24-18

REVISION

CITY COMMENTS

SITE PLAN

LOT 15 BLOCK 2

SOUTHWOOD TERRACE ADD

BISMARCK, NORTH DAKOTA

SWENSON, HAGEN & COMPANY P.C.

900 Bismarck Avenue
Bismarck, ND 58504
Phone (701) 223-2600
Fax (701) 223-2606

Surveying
Engineering
Land Planning
Civil Engineering
Landscape & Site Design
Construction Management

DRAWN BY: JF

CHECK BY: JP

DATE: JAN 22, 2018

FILE DESC: SOUTHWOOD TERRACE

COMPUTER FILE: LOT 15 BK 2 SURVEY 2018

PROJECT NO. 384-9

SHEET

C3.0